



**PRESCRIBED BURNING SMOKE MANAGEMENT PLAN**  
 Provide All of the Following Information Using the Attached Instructions

**GENERAL INFORMATION**

PREPARER'S NAME & ADDRESS (street, city, zip) \_\_\_\_\_ DATE \_\_\_\_\_  
 PREPARER'S AFFILIATION \_\_\_\_\_ PHONE # \_\_\_\_\_  
 PRIMARY RESPONSIBLE PERSON \_\_\_\_\_ PHONE # \_\_\_\_\_  
 LAND OWNER(S) & MAILING ADDRESS (street, city, zip) \_\_\_\_\_ PHONE # \_\_\_\_\_  
 FIELD CONTACT NAME & 24-HOUR PHONE/PAGER # (during burn) \_\_\_\_\_

**PROJECT DESCRIPTION**

1. LOCATION \_\_\_\_\_
2. OBJECTIVES \_\_\_\_\_  
 \_\_\_\_\_
3. PROJECTED ACREAGE \_\_\_\_\_ 4. PROJECTED TONNAGE \_\_\_\_\_
5. TYPE(S) AND ARRANGEMENT OF VEGETATION TO BE BURNED \_\_\_\_\_  
 \_\_\_\_\_
6. FUEL CONDITION \_\_\_\_\_ 7. COMBUSTION \_\_\_\_\_
8. PROJECTED BURN SCHEDULE \_\_\_\_\_  
 \_\_\_\_\_
9. EXPECTED DURATION OF PROJECT (a) IGNITION \_\_\_\_\_ (b) COMBUSTION \_\_\_\_\_  
 (c) BURN DOWN \_\_\_\_\_

**SMOKE MANAGEMENT COMPONENTS**

10. DIRECTIONS AND DISTANCES TO NEARBY SENSITIVE RECEPTOR AREAS \_\_\_\_\_  
 \_\_\_\_\_
11. METEOROLOGICAL PRESCRIPTION \_\_\_\_\_  
 \_\_\_\_\_
12. SPECIFICATIONS FOR MONITORING AND VERIFICATION OF METEOROLOGICAL  
 CONDITIONS AND SMOKE BEHAVIOR BEFORE AND DURING THE BURN \_\_\_\_\_  
 \_\_\_\_\_
13. SPECIFICATIONS FOR DISSEMINATING PROJECT INFORMATION TO PUBLIC: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

14. WHAT CONTINGENCY ACTIONS WILL BE TAKEN DURING THE BURN TO REDUCE EXPOSURE IF SMOKE INTRUSIONS IMPACT ANY SENSITIVE RECEPTOR AREA:

<input type="checkbox"/>	Halt ignitions, except as needed to maintain control of fire.
<input type="checkbox"/>	Allow fire to burn to contingency control lines.
<input type="checkbox"/>	Suppress fire.
<input type="checkbox"/>	Begin immediate mop up.
<input type="checkbox"/>	Begin mop up within _____ hours of problem identification.
<input type="checkbox"/>	Complete mop up within _____ hours of initiation.
<input type="checkbox"/>	Discontinue mop up if favorable conditions return.
<input type="checkbox"/>	Other (explain):

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15. ATTACH A COPY OF THE ENVIRONMENTAL IMPACT ANALYSIS PREPARED FOR THE BURN PLAN THAT INCLUDES AN EVALUATION OF ALTERNATIVES TO BURNING, IF SUCH AN ANALYSIS IS REQUIRED BY STATE OR FEDERAL LAW OR STATUTE

16. PROJECT FUEL LOADING ESTIMATE (TONS VEGETATION/ACRE) BY VEGETATION TYPE(S) AND A DESCRIPTION OF THE CALCULATION METHOD

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17. PARTICULATE MATTER EMISSIONS ESTIMATE INCLUDING REFERENCED EMISSION FACTOR(S) AND A DESCRIPTION OF THE CALCULATION METHOD USED

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### **CERTIFICATION**

18. I HEREBY CERTIFY, AS A QUALIFIED PROFESSIONAL RESOURCE ECOLOGIST, BIOLOGIST, OR FORESTER, THAT THE PROPOSED BURNING DESCRIBED ABOVE IS NECESSARY TO ACHIEVE THE SPECIFIC MANAGEMENT OBJECTIVE(S) OF THE SMOKE MANAGEMENT PLAN PREPARED FOR THIS BURN PROJECT.

Signature \_\_\_\_\_

Date \_\_\_\_\_

Name (print) \_\_\_\_\_

Title (print) \_\_\_\_\_



## BAAQMD REGULATION 5: OPEN BURNING

### INSTRUCTIONS FOR COMPLETING A PRESCRIBED BURNING SMOKE MANAGEMENT PLAN (FORM Rx-1)

#### GENERAL INFORMATION & APPLICABILITY

All Wildland Vegetation Management fires (i.e., prescribed burning), irrespective of project size, are subject to the Smoke Management Plan (SMP) requirements in Regulation 5, Subsection 408.1.

In addition, for the purposes of this Regulation,

- Forest Management fires
- Range Management fires
- Hazardous Material fires not related to Public Resources Code 4291, or
- Crop Replacement fires for the purpose of establishing an agricultural crop on previously uncultivated land,

That are expected to exceed 10 acres in size or burn piled vegetation cleared or generated from more than 10 acres of land, are regulated as Wildland Vegetation Management fires. Therefore, these specific fire types are also subject to the prescribed burning SMP requirements in Regulation 5, Section 408.1.

All Smoke Management Plans must be submitted to the Air Pollution Control Officer (APCO) for review at least 30 calendar days prior to the proposed burning (See Regulation 5, Section 408.1).

Exception - When a fire official decides to manage a naturally ignited wildland fire for resource benefits that is expected to exceed 10 acres in size, a SMP must be submitted to the APCO upon request (See Regulation 5, Section 408).

A smoke management plan (SMP) must address individual burn block requirements where they are likely to require different smoke management prescriptions.

#### INSTRUCTIONS

Please carefully read and follow these instructions

1. Location: Give the property address, legal description (township, range, and sections) and the longitude and latitude (degrees, minutes, and seconds) for the burn site. Attach a map of the project area and identify the boundaries and elevation range of the project area, and where applicable, the burn blocks within the area.
2. Objectives: Describe the resource and land management objective(s) or purpose of the burn project.
3. Projected Acreage: Give an estimate of the total number of acres to be burned by vegetation type(s), or if pile burning, the amount of acreage the material in the pile came from. Where the material is located in a series of burn blocks within a project area, provide the acreage for each burn block.
4. Projected Tonnage: Give an estimate of the total amount of vegetation (in tons) available to be consumed by the burn by vegetation type(s). Where the material is located in a series of burn blocks within a project area, provide the amount for each burn block.
5. Type(s) & Arrangement of Vegetation to be burned: Characterize the type, or types of vegetation expressed as a percentage to be burned (grass, chaparral, coastal scrub, etc), and describe how the vegetation is arranged (mosaic, continuous, vertical depth, etc).
6. Fuel Condition: Describe the condition or any pre-treatment of the vegetation to be burned (natural standing, piles, windrows, slash, drying time, etc).
7. Combustion: Provide the expected combustion efficiency of all fuels and the expected percentage of the total amount of material to be burned.

8. Projected Burn Schedule: Include the proposed time of year for the burn project (month/year), and the days of the week and number of days on which burning is planned. For example, you could enter August through November on weekdays (Monday-Friday) only. If the material to be burned is located in a series of burn blocks within a project area, then provide a schedule for each burn block, if applicable.
9. Expected Duration of Project: Describe the expected duration of ignition, combustion, and burn down in hours and/or days. For example, if you expect the burn project or a burn block within a project area to be completed in one day, then specify the hours of ignition, combustion and burn down for one day of burning. If after ignition the fire is expected to burn more than one day and to be actively burning throughout the night, then indicate the expected ignition period (in hours), and the expected combustion and burn down periods (in hours and days). If the burn ignitions are planned on more than one day but the fire is not anticipated to consume additional material through the evening hours, then indicate the expected ignition, combustion and burn down periods (in hours) for separate days of burning.
10. Directions & Distances to Nearby Sensitive Receptor Areas: "Sensitive receptor areas" are populated areas that could be adversely impacted by smoke from the burn project, such as towns or cities, major roads, hospitals, schools and airports. Burn projects with a project area of 10 acres or less must provide a 7.5 Minute USGS topographic map of the project delineating the distance (in miles) and compass direction of sensitive receptor areas within a 5-mile radius from the burn site. Burn projects with a project area greater than 10 acres must include a map showing sensitive receptor areas within a 20-mile radius from the burn site, and also indicate the projected direction(s) of smoke travel while burning in prescription day or night.
11. Meteorological Prescription: Provide a detailed meteorological prescription that is realistic for the time of year under which burning is to be conducted. The prescription must include acceptable minimum and maximum ranges of surface wind direction and speed, temperature, relative humidity, 1-hr. and 10-hr. fuel moistures, and the minimum mixing depth or venting elevation. Other considerations may include winds aloft and any other meteorological condition that may affect smoke dispersion and/or fire behavior. **NOTE: this prescription must be present** prior to ignition and the prescription **must be verified** during any burning.
12. Monitoring & Verification of Meteorological Prescription & Smoke Behavior: Describe the resources (e.g. equipment, and personnel) and methods or procedures that will be used to verify and document prescription conditions prior to ignition and through completion of the burn. Include what resources and methods or procedures will be used to monitor or track and document (e.g. an observer's log) the behavior of smoke plume(s), and document if sensitive receptor areas are adversely impacted. Also describe what steps will be taken to inform all members of the firing crews, volunteers and employees of smoke management requirements.
13. Public Notification Procedures: Describe what notification procedures are to be used to make sure the public is aware of the planned burn (e.g., media announcement, road signs, flyers, etc.) and for reporting of public smoke complaints. Include all planned activities and the timing of these activities.
14. Contingency Actions: Using the examples provided in the SMP form associated with these instructions, describe what actions will be taken if smoke from this burn project unexpectedly impacts any sensitive receptor area. This information may include the ability to extinguish the fire with equipment on hand or with assistance from a fire protection agency.
15. Evaluation of Alternatives to Burning: Attach a copy of the pertinent section(s) of the environmental analysis document prepared for the burn plan or project that describes any alternatives to burning that have been considered and to what extent they have been used, if such an analysis is required by law or statute.
16. Fuel Loading: Give an estimate of the total fuel loading within the project area by vegetation type(s), expressed for each type of vegetation (tons of vegetation type/acre). Include a description of the calculation method used to obtain the estimate.
17. Particulate Matter (PM<sub>10</sub>) Emissions: Provide an estimate of the total PM<sub>10</sub> emissions (in tons) for the burn project, expressed as a sum total of the PM<sub>10</sub> emissions estimates for each vegetation type (tons/vegetation type). Include a description of the calculation method and any literature sources or references used to obtain the estimate.
18. Certification: Include the example of the certification language provided in the SMP form associated with these instructions. Be sure to sign and print your name, print your title, and include the certification date.

**NOTE:** To obtain prescribed burn forecasting services, please contact the BAAQMD duty meteorologist by calling (415) 749-4915. For general questions about open burning requirements, please call (415) 749-5118.